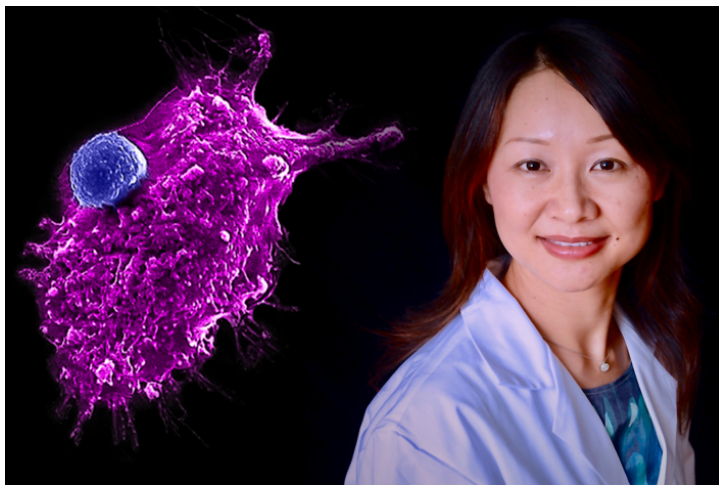


UCLA scientists make strides toward an 'off-the-shelf' immune cell therapy for cancer

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On the left: an engineered HSC-iNKT cell (blue) attacking a human tumor cell • On the right: senior author, Professor Lili Yang

November 16, 2021

UCLA researchers have made a critical advance in the development of an "off-the-shelf" cancer immunotherapy. Their findings, [published today in *Cell Reports Medicine*](https://www.cell.com/cell-reports-medicine/fulltext/S2666-3791(21)00317-7#%20), show they have successfully engineered blood stem cells to produce large quantities of normally rare but powerful immune cells, called invariant natural killer T cells. The researchers showed that these engineered (HSC-iNKT) cells can be stored for extended periods, and used safely to treat a wide range of patients with various cancers.

"In order to reach the most patients, we want cell therapies that can be mass-produced, frozen and shipped to hospitals around the world," said senior author, Lili Yang, [a professor of microbiology, immunology & molecular genetics](https://www.mimug.ucla.edu/people/lyang/), and a researcher with the [Eli and Edythe Broad Center of Regenerative Medicine and Stem Cell Research at UCLA](https://urldefense.proofpoint.com/v2/url?u=https-3A_stemcell.ucla.edu_&d=DwMGaQ&c=UXmaowRpu5bLSLEQRUnJ2z-YIUZuUoa9Rw_x449Hd_Y&r=O-zsRWbUMO19fbrvs7XpeKYsk4VS0NtSZnlzXgS19VM&m=kmRqQ7B67On0PTBAzYhV_NydZt9UbeG9jKgmzJfHLLY&s=0FRfmLY-udEfbkDTPrkC1kLvbZM_OerFSe9sX3pvecs&e=). This latest report offers great hope for many patients with cancer.

You can read more about the research findings in [this press release](https://www.eurekalert.org/news-releases/935142).

